



U.S. DEPARTMENT OF
ENERGY

Nuclear Materials and Stabilization Projects Performance Based Incentives for FY2011

**Maxcine Maxted,
Nuclear Materials Programs Division
Savannah River Operations Office**



EM *Environmental Management*
safety ♦ performance ♦ cleanup ♦ closure

Desired Nuclear Materials Contract Performance Outcomes

➤ Primary Focus Areas:

- **Manage Surplus Uranium Materials and Used Nuclear Fuel (UNF)**
- **Manage Surplus Plutonium Materials**
- **Throughput Improvement and Preparation Initiatives**
- **Infrastructure/ Facility Life Extension**



Receive, store, characterize, and disposition surplus uranium materials and UNF.

- **Receive and Unload Foreign Research Reactor/Domestic Research Reactor fuel in accordance with fuel schedule**
- **Load and ship bundles of UNF from L-Area to H-Area**
- **Process UNF in H-Canyon (approval of the Amended Record of Decision needed to initiate).**
- **Meet the Low Enriched Uranium (LEU) delivery commitments for the agreement with Tennessee Valley Authority (TVA) (requires revision to the existing TVA agreement)**



Receive, store, characterize and disposition surplus plutonium materials.

- **Continue Surveillance activities of 3013s (nondestructive/destructive evaluations)**
- **Receive Special Nuclear Material (SNM) as necessary to meet Complex needs**
- **Perform Uranium Measurements utilizing the Californium Shuffler**
- **Complete the Low Assay Plutonium (LAP) Disposition campaign**
- **Dissolve material contained in the 3013s that were Destructively Evaluated**
- **Update HB-Line 3009 Documented Safety Analysis (DSA).**



Uranium and Plutonium Throughput Improvement and Preparation Initiatives

- **Throughput Improvement Initiatives:**
 - **Additional Plutonium Storage in HB-Line/H-Canyon**
 - **Vacuum Salt Distillation (VSD)**
 - **Increased storage space in K-Area (Purification Area Vault)**
 - **Establish UNF bundle storage in H-Canyon**

- **Complete deactivation of F-Canyon to prepare for D&D**



Infrastructure / Facility Life Extension

- **Infrastructure upgrades to support UNF processing**
- **Fire Protection improvements**
- **Electrical Systems upgrades**



Modifications of PBIs

- **PBIs were written with Government Furnished Services and Items (GFSI) identified.**
- **In case the GFSI can not be delivered as specified, the PBI would be modified.**
- **The modification could be:**
 - **In schedule**
 - **Amount; or**
 - **A negotiated different work scope.**

